

Docket No.: 57454-974

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of : Customer Number: 20277  
Yukio FUJII : Confirmation Number: 1761  
Serial No.: 10/653,199 : Group Art Unit: 3679  
Filed: September 03, 2003 : Examiner: Dunwoody, Aaron M.

For: ROLLING BEARING RING OF CONSTANT VELOCITY JOINT, AND SUPPORT  
COMPONENT FOR ROLLING AND SWINGING MOTION

**DECLARATION OF YUKIO MATSUBARA FILED  
IN SUPPORT OF PETITION UNDER 37 C.F.R. § 1.182**

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Yukio MATSUBARA, to the best of my knowledge and belief, do hereby state as

follows:

1. My name, as correctly reflected on the executed Declaration at the time of filing the above-noted patent application, was Yukio FUJII.
2. On January 15, 2004, my name was legally changed, through effect of marriage, to Yukio MATSUBARA.
3. In accordance with MPEP §605.04(c), I have provided both signatures below on this affidavit.

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4. I have provided an executed Substitute Declaration in my current name, Yukio MATSUBARA, for U.S. Patent Application Serial No. 10/653,199.

5. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of any application or patent issued thereon.

Respectfully submitted,

Date: August 30, 2004

By: Yukio Matsubara  
Yukio MATSUBARA

Yukio Fujii  
Yukio FUJII

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**DECLARATION UNDER 37 C.F.R. § 1.132**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

1. I, Yukio Matsubara, declare that:
2. I am the sole named and true inventor in the above-identified patent application;
3. My name was formerly Yukio Fujii.
4. I, as Yukio Fujii, together with Kikuo Maeda, are named as joint inventors in U.S.

Patent No. 6,666,931, issued December 23, 2003;

5. To the extent that subject matter relating to (i) a rolling bearing ring of a constant velocity joint, employing steel of a component composition containing at least, as alloying elements, at least 0.5 mass % and 0.7 mass % at most of carbon, at least 0.5 mass % and 1.0 mass % at most of silicon, and at least 0.5 mass % and 1.0 mass % at most of manganese with a remainder including iron and inevitable impurities, and having a structure in which a raceway

surface is subjected to induction hardening; (ii) a rolling bearing as described in (i) above, wherein steel is employed having a component composition satisfying  $L \geq 50$  in an equation of:

$$L = 105.4 \times (C\%)^{0.24} \times (Si\%)^{1.12} \times (Mn\%)^{1.24}$$

where C%, Si% and Mn% are a percentage content (mass %) of carbon, silicon and manganese, respectively; and (iii) a support component of rolling and swinging motion, comprising the rolling bearing ring of a constant velocity joint defined in (i) above, are disclosed, but not claimed in U.S. Patent No. 6,666,931. I am the sole inventor of said subject matter; and

6. Kikuo Maeda, the other named joint inventor in U.S. Patent No. 6,666,931, is not an inventor of said subject matter described above.

7. The undersigned hereby declares that all statements made herein based upon knowledge are true, and that all statements made based upon information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DATED: August 30, 2004

Yukio Matsubara  
Yukio Matsubara

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**DECLARATION UNDER 37 C.F.R. § 1.132**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

1. I, Kikuo Maeda, declare that:
2. Yukio Matsubara was formerly named Yukio Fujii;
3. I, together with Yukio Matsubara, as Yukio Fujii, are named as joint inventors in U.S. Patent No. 6,666,931, issued December 23, 2003;

4. To the extent that subject matter relating to (i) a rolling bearing ring of a constant velocity joint, employing steel of a component composition containing at least, as alloying elements, at least 0.5 mass % and 0.7 mass % at most of carbon, at least 0.5 mass % and 1.0 mass % at most of silicon, and at least 0.5 mass % and 1.0 mass % at most of manganese with a remainder including iron and inevitable impurities, and having a structure in which a raceway surface is subjected to induction hardening; (ii) a rolling bearing as described in (i) above, wherein steel is employed having a component composition satisfying  $L \geq 50$  in an equation of:

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$$L = 105.4 \times (C\%)^{0.24} \times (Si\%)^{1.16} \times (Mn\%)^{1.24}$$

where C%, Si% and Mn% are a percentage content (mass %) of carbon, silicon and manganese, respectively; and (iii) a support component of rolling and swinging motion, comprising the rolling bearing ring of a constant velocity joint defined in (i) above, are disclosed, but not claimed in U.S. Patent No. 6,666,931. Yukio Matsubara is the sole inventor of said subject matter; and

5. I, Kikuo Maeda, the other named joint inventor in U.S. Patent No. 6,666,931, am not an inventor of said subject matter described above.

6. The undersigned hereby declares that all statements made herein based upon knowledge are true, and that all statements made based upon information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DATED: August 30, 2004

Kikuo Maeda  
Kikuo Maeda